

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384104

Luminaire Tested: **14ID-80-L840-CFD1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-67)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-80-L840-CFD1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

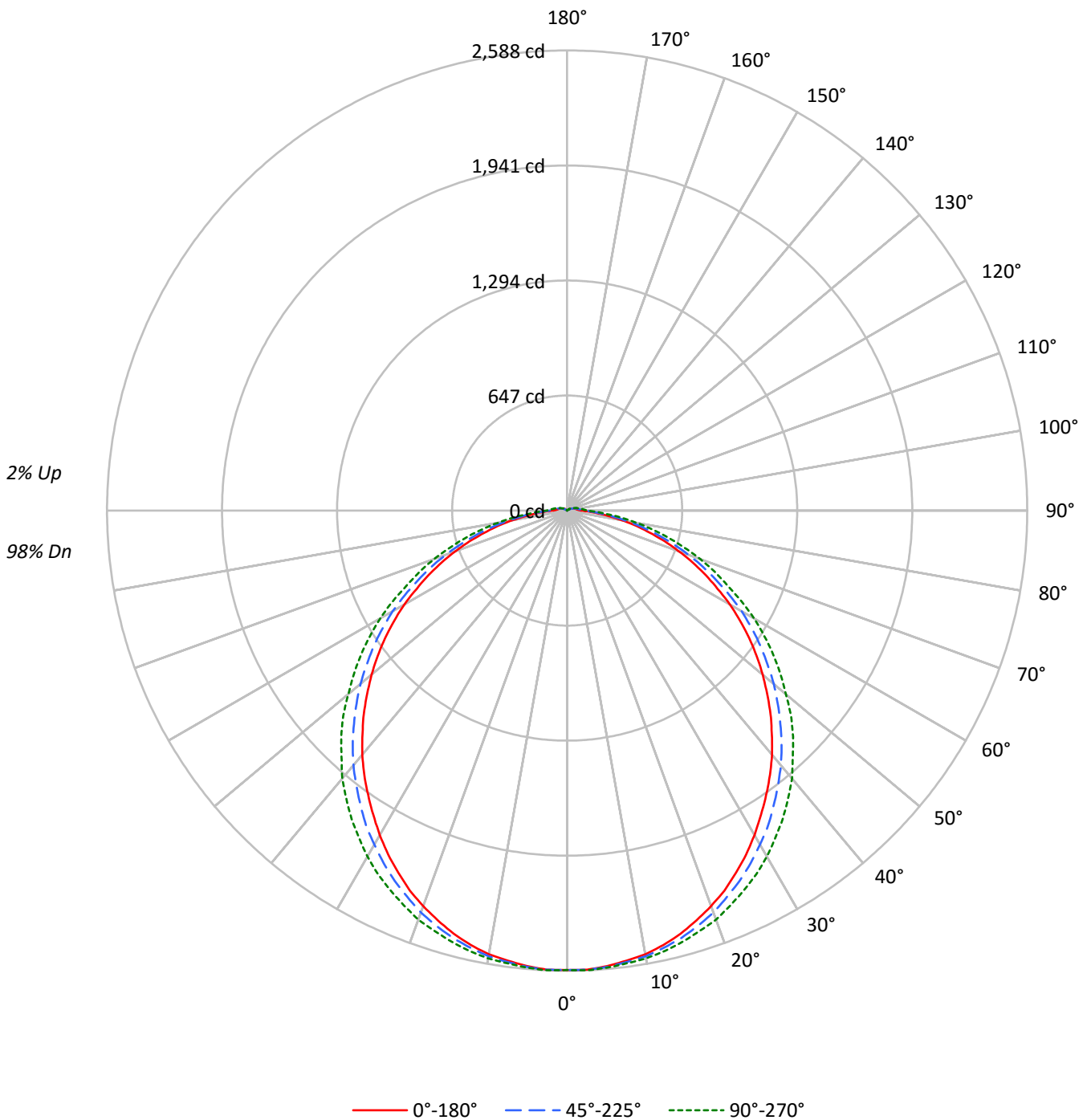
Lumens per Lamp: N/A
Luminaire Lumens: 7653.5 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.08')
CIE Type: Direct

Input Watts (W): 77.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	108	103	98	94	105	100	96	92	96	92	89	91	88	86	87	85	83	81
2	98	89	82	76	95	87	81	75	83	78	73	80	75	71	76	73	69	67
3	89	78	70	63	86	76	69	63	73	67	61	70	64	60	67	62	58	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	49	44	54	48	44	41
6	69	56	47	40	67	55	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6954	6954	6954
5°	6936	6915	6920
10°	6898	6866	6886
15°	6826	6795	6841
20°	6727	6709	6805
25°	6606	6594	6732
30°	6469	6465	6660
35°	6319	6327	6564
40°	6189	6187	6459
45°	6032	6010	6311
50°	5865	5839	6118
55°	5692	5633	5938
60°	5503	5408	5712
65°	5250	5078	5366
70°	4967	4748	5093
75°	4641	4304	4678
80°	4302	3775	4166
85°	4160	3253	3559



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	3.2
10°-20°	701.6	9.2
20°-30°	1059.2	13.8
30°-40°	1269.1	16.6
40°-50°	1312.1	17.1
50°-60°	1188.2	15.5
60°-70°	919.5	12.0
70°-80°	564.8	7.4
80°-90°	224.4	2.9
90°-100°	81.9	1.1
100°-110°	50.3	0.7
110°-120°	25.9	0.3
120°-130°	11.0	0.1
130°-140°	0.8	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2005.5	26.2
0°-40°	3274.6	42.8
0°-60°	5775.0	75.5
0°-90°	7483.6	97.8
90°-120°	158.0	2.1
90°-150°	169.8	2.2
90°-180°	170.0	2.2
0°-180°	7653.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2584	2584	2584	2584	2584	
5°	2572	2572	2576	2576	2580	244
15°	2464	2468	2487	2503	2510	694
25°	2247	2262	2297	2336	2355	1035
35°	1952	1975	2025	2080	2115	1222
45°	1618	1637	1696	1766	1796	1247
55°	1249	1277	1327	1385	1416	1116
65°	861	881	924	970	993	852
75°	481	504	528	563	590	513
85°	167	178	194	213	225	166
90°	78	89	97	109	116	46
95°	58	66	74	82	89	46
105°	43	43	47	50	54	45
115°	27	23	23	27	31	28
125°	16	12	8	12	16	14
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2584.2	2584.2	2584.2	2584.2	2584.2
2.5°	2584.2	2580.3	2584.2	2584.2	2588.1
5°	2572.5	2572.5	2576.4	2576.4	2580.3
7.5°	2553.1	2553.1	2560.9	2564.8	2568.7
10°	2533.7	2533.7	2545.4	2549.3	2557.0
12.5°	2502.7	2506.6	2518.2	2529.9	2537.6
15°	2463.9	2467.8	2487.2	2502.7	2510.5
17.5°	2417.3	2425.1	2448.4	2471.6	2479.4
20°	2366.9	2378.5	2405.7	2432.8	2448.4
22.5°	2312.6	2320.3	2351.4	2386.3	2401.8
25°	2246.6	2262.1	2297.0	2335.8	2355.2
27.5°	2180.6	2196.2	2235.0	2281.5	2304.8
30°	2106.9	2122.4	2169.0	2219.4	2246.6
32.5°	2029.3	2048.7	2103.0	2153.5	2180.6
35°	1951.7	1975.0	2025.4	2079.8	2114.7
37.5°	1874.1	1893.5	1947.8	2006.0	2041.0
40°	1792.6	1812.0	1870.2	1928.4	1967.2
42.5°	1703.4	1726.7	1784.9	1846.9	1878.0
45°	1618.0	1637.4	1695.6	1765.5	1796.5
47.5°	1524.9	1552.1	1606.4	1672.3	1707.3
50°	1435.7	1458.9	1517.1	1579.2	1606.4
52.5°	1342.5	1365.8	1420.1	1482.2	1513.3
55°	1249.4	1276.6	1327.0	1385.2	1416.3
57.5°	1152.4	1179.6	1230.0	1280.4	1315.4
60°	1059.3	1086.4	1133.0	1183.4	1214.5
62.5°	954.5	977.8	1028.2	1082.6	1105.8
65°	861.4	880.8	923.5	970.0	993.3
67.5°	764.4	787.7	826.5	869.2	896.3
70°	667.4	694.5	725.6	764.4	795.4
72.5°	574.3	597.5	624.7	663.5	690.7
75°	481.1	504.4	527.7	562.6	589.8
77.5°	399.7	411.3	434.6	465.6	492.8
80°	310.4	325.9	345.3	376.4	395.8
82.5°	232.8	248.3	263.8	287.1	306.5
85°	166.8	178.5	194.0	213.4	225.0
87.5°	112.5	124.2	135.8	151.3	163.0
90°	77.6	89.2	97.0	108.6	116.4
92.5°	66.0	73.7	81.5	89.2	97.0
95°	58.2	66.0	73.7	81.5	89.2
97.5°	54.3	58.2	66.0	73.7	77.6
100°	50.4	54.3	58.2	66.0	69.8
102.5°	46.6	46.6	54.3	58.2	62.1
105°	42.7	42.7	46.6	50.4	54.3
107.5°	38.8	38.8	42.7	42.7	50.4
110°	34.9	31.0	34.9	34.9	42.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.0	27.2	31.0	31.0	34.9
115°	27.2	23.3	23.3	27.2	31.0
117.5°	23.3	19.4	19.4	19.4	27.2
120°	23.3	19.4	15.5	15.5	23.3
122.5°	19.4	15.5	11.6	15.5	19.4
125°	15.5	11.6	7.8	11.6	15.5
127.5°	11.6	11.6	3.9	7.8	11.6
130°	11.6	7.8	3.9	7.8	7.8
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)